

1754



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

JACOBSON ET AL.

CASE NO.: CH2714 US NA

SERIAL NO.: 09/848,896

GROUP ART UNIT: 1754

10 FILED: MAY 4, 2001

EXAMINER: T. VAN OY

FOR: SULFUR TRIOXIDE DELIVERY  
SYSTEMAMENDMENT

15

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

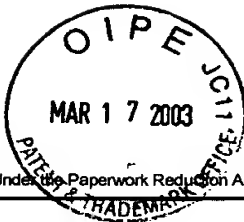
20 In response to the Office Action dated December 13, 2002, please  
amend the above-referenced application as follows:IN THE CLAIMS

Please cancel claim 2 and amend claims 1 and 8 as follows:

- 25 1. (Amended) A process for reversible sorption of sulfur  
trioxide onto a sorbent comprising a) contacting from about 15% to 100%  
sulfur trioxide in an inert gas with the sorbent under anhydrous conditions  
at a temperature of from about 35°C to about 150°C thereby sorbing the  
sulfur trioxide onto the sorbent which sorbent is then capable of storage,  
b) desorbing sulfur trioxide from the sorbent at a temperature of from  
30 about 150°C to about 350°C at about atmospheric pressure, or under a  
vacuum pressure, and c) recycling said sorbent by continuously repeating  
steps a) and b), wherein said sorbent has structural stability upon recycle,  
a pore size of at least 0.5 nm, and consists essentially of silica or zeolite,  
said zeolite having a silicon to aluminum ratio greater than about 5.1.
- 35 8. (Amended) A sorbent consisting essentially of silica or  
zeolite, said zeolite having a silicon to aluminum ratio greater than about  
5.1, said sorbent having a pore size of at least 0.5 nm, and having  
adsorbed thereon a minimum of about 1% by weight sulfur trioxide.

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fancy, c.e., n.r.m.



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